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Apr 21, 1998

DERWENT-ACC-NO: 1998-290023

DERWENT-WEEK: 200033

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TITLE: Wiping sheet for cleaning objects - has wrinkles formed at uniform pitch between rows of small junctions formed in adjoining junction parts of piled sheet layers

INVENTOR: KONISHI, T; TAKEUCHI, N

PATENT-ASSIGNEE:

ASSIGNEE

CODE

UNI-CHARM KK

UNICN

PRIORITY-DATA: 1996JP-0257032 (September 27, 1996), 1996JP-0173725 (July 3, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 10099247 A	April 21, 1998		010	A47L013/16
SG 72745 A1	May 23, 2000		000	B32B003/28
KR 98008560 A	April 30, 1998		000	B32B029/08
US 5958555 A	September 28, 1999		000	B32B003/28
TW 363920 A	July 11, 1999		000	B32B003/28

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 10099247A	September 27, 1996	1996JP-0257032	
SG 72745A1	June 25, 1997	1997SG-0002208	
KR 98008560A	July 3, 1997	1997KR-0030746	
US 5958555A	June 24, 1997	1997US-0881070	
TW 363920A	June 26, 1997	1997TW-0108989	

INT-CL (IPC): A47 L 13/16; A61 L 2/18; B32 B 3/26; B32 B 3/28; B32 B 29/08

RELATED-ACC-NO: 1998-138458

ABSTRACTED-PUB-NO: JP 10099247A

BASIC-ABSTRACT:

Wiping sheet (1) for cleaning objects comprises sheet layers (S1, S2) piled up and partially joined at bonding junction parts (A). Each bonding junction part is formed from short junctions (a) positioned in a row to form multiple rows of short junctions among all the bonding junction parts. Wrinkles (B) are formed between the adjoining bonding junction parts repeatedly with roughness according to the pitch (P) uniformly between the short junctions of each row. The wrinkles appear on the surface with the same pitch in the middle domain between the adjoining rows of short junctions. A chemical agent for cleaning is impregnated between the piled up sheet layers.

USE - The sheet is used in a steamed towel for rinsing a toilet, for microbe elimination, sterilisation and wiping of the body or interior of a room.

ADVANTAGE - Bulkiness is obtained from the concavo-convex wrinkles. Achieves high wiping off effect. Stains are efficiently removed from irregular surfaces. Crushing force is eliminated by increasing the strength of wrinkles.
ABSTRACTED-PUB-NO:

US 5958555A

EQUIVALENT-ABSTRACTS:

Wiping sheet (1) for cleaning objects comprises sheet layers (S1, S2) piled up and partially joined at bonding junction parts (A). Each bonding junction part is formed from short junctions (a) positioned in a row to form multiple rows of short junctions among all the bonding junction parts. Wrinkles (B) are formed between the adjoining bonding junction parts repeatedly with roughness according to the pitch (P) uniformly between the short junctions of each row. The wrinkles appear on the surface with the same pitch in the middle domain between the adjoining rows of short junctions. A chemical agent for cleaning is impregnated between the piled up sheet layers.

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TITLE-TERMS: WIPE SHEET CLEAN OBJECT WRINKLE FORMING UNIFORM PITCH ROW JUNCTION FORMING ADJOIN JUNCTION PART PILE SHEET LAYER

DERWENT-CLASS: D22 F09 P28 P34 P73

CPI-CODES: D09-A02;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1998-089943

Non-CPI Secondary Accession Numbers: N1998-227986

L Number	Hits	Search Text	DB	Time stamp
1	1229	(428/167).CCLS.	USPAT	2003/04/29 12:48
2	305	(428/153).CCLS.	USPAT	2003/04/29 12:48
3	14	((428/167).CCLS.) and ((428/153).CCLS.)	USPAT	2003/04/29 12:50
4	1237	428/198.ccls.	USPAT	2003/04/29 12:50
5	4793	428/195.ccls.	USPAT	2003/04/29 12:51
6	1187	428/211.ccls.	USPAT	2003/04/29 12:51
7	39	((428/153).CCLS.) and (428/198.ccls. or 428/195.ccls. or 428/211.ccls.)	USPAT	2003/04/29 12:51